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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,654	09/26/2006	Manfred Buck	MC1-8353	1655

7590 01/06/2011  
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EXAMINER
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LEE, SIN J

ART UNIT	PAPER NUMBER
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1722

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01/06/2011

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

***Claim Rejections - 35 USC § 102***

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
2. Claim 44 is rejected under 35 U.S.C. 102(b) as being anticipated by Rozsnyai et al ("Selective Electrochemical Deposition of Polyaniline via Photopatterning of a Monolayer-Modified Substrate", Journal of American Chemical Society, 1994, 116(3), pg.5993-5994).

The end product of Rozsnyai's Scheme I shows a gold (Au) substrate having a surface and a self-assembled monolayer anchored to the surface by a thiol moiety (present anchor moiety). The SAM comprises aryl moieties (some of which are substituted by amino group) as well as C11 alkyl group (present spacer group). Since present claim 44 calls for a surface-modified layer system comprising a substrate having a surface and a self-assembled monolayer anchored to at least part of the surface, wherein the SAM is comprised by an aryl or rigid alicyclic moiety species in a substantially stable structural form (present claim 44 is a product-by-process claim), Rozsnyai teaches present invention of claim 44.

3. *It is to be noted that applicants amended claim 44 to incorporate the subject matter of previous claims 36, 39 and 40. However, in the Final rejection, those claims 36, 39, 40 and 44 were already rejected under 35 USC 102(b) as being anticipated by Rozsnyai et al.*

***Allowable Subject Matter***

4. Claims 45 and 46 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. None of the cited prior arts teaches or suggests present combination of the substrate and the spacer group of claims 45 and 46.

5. Claims 25-35 and 47-49 are allowed. With respect to present claim 25, none of the cited prior arts teaches or suggests present step of providing a SAM which is polymorphic having at least first and second structural forms and then thermally treating the SAM so as to change the SAM from its first structural form to the second structural form as presently required in claim 25. None of the cited prior arts teaches or suggests present SAM compound of claims 47 and 48. None of the cited prior arts discloses present domain sizes of claim 49 that exceed  $10^5 \text{ nm}^2$ .

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sin J. Lee whose telephone number is 571-272-1333. The examiner can normally be reached on Monday-Friday from 9:00 am EST to 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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/Sin J. Lee/

Primary Examiner, Art Unit 1795

January 4, 2011